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Class 235 REGISTERS

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1R	**MISCELLANEOUS**
1A	. Shutters
1B	. Game counters
1C	. Numeral wheels
1D	. Casings
1E	. Toy cash registers
1F	. "Fugitive one" mechanism
2	**CASH REGISTERS AND RECORDERS**
3	. Check printing
4	**CASH RECORDERS**
5	. Manual
7R	**CASH REGISTERS**
6	. Departmental
8	. Key set
9	.. Crank operated
10	.. Drawer operated
11	.. Motor operated
12	. Key operated
13	.. Detail adders
14	.. Differential mechanism
15	... Key coupled
16	... Lost-motion mechanism
17	. Checks
18	.. Balls
19	. Dial
20	.. Independent indicator
21	.. Lever operated
22	. Drawer-operating mechanism
23	. Indicator mechanism
24	.. Shutters
25	.. Tablet droppers
26	. Key arresters
27	. Key locks
28	. Lid registers
7A	. Refund devices and coin change
33	**FARE REGISTERS**
29R	. Multiple
29A	.. Fare register seal
30R	. Cab-fare indicating
30A	.. Meter preparation
31R	. Ticket delivery
31T	.. Issue and print
32	. Registering boxes
34	. Dial and cylinder
35	. Belt
36	. Parallel axes
37	.. Cylinder

38	.. Dial and hand
39	.. Disk
40	. Single axis
41	.. Concentric disk
42	.. Cylinder
43	.. Dial and hand
44	. Operating devices
45	.. Electric
46	.. Punch
47	. Resetting
48	.. Direction indicator
49	. Hundreds indicator
51	**VOTING MACHINES**
50R	. Recording
50A	.. Recording and registering
50B	.. Voting machines, recording
52	. Assembly
53	. Check operated
54R	. Key set
54A	.. Interlocks, voting machines
54B	.. Endorsed candidate lockout
54C	.. Primary voting mechanism
54D	.. Cumulative interlocks for voting machines
54E	.. Independent voting mechanism
54F	.. Voting machines, electric
55R	. Key operated
55A	.. Interlocks; voting machine
55C	.. Primary lockouts
55E	.. Independent voting mechanism
56	. Vote counters
57	**REGISTERING BALLOT BOXES**
375	**SYSTEMS CONTROLLED BY DATA BEARING RECORDS**
376	. Operations analysis
377	. Time analysis
378	.. Price determination
379	. Banking systems
380	. Credit or identification card systems
381	.. With vending
382	.. Permitting access
382.5	... Changeable authorization
383	. Mechanized store
384	. Transportation
385	. Inventory
386	. Voting machine
400	**ORDNANCE OR WEAPON SYSTEMS COMPUTER**
401	. Bombing
402	.. Toss
403	. Torpedo director
404	. Aiming
405	.. Mechanical computation
406	... With tabular chart, scale, or graph
407	.. Compensating for weapon movement (e.g., tilt)
408	. Projectile flight time - fuse setting
409	. Parallex compensation
410	. Coordinate conversion
411	. With target tracking means
412	.. Position or course prediction
413	.. Calculating speed and direction
414	. Range finder

415	.. With range rate change
416	.. Range prediction
417	. Ballistic factor determination
418	. Hand adjusted scale mechanism
419	**RECORD CONTROLLED CALCULATORS**
420	. Machine control
421	. Multiplying
422	. Dividing
423	. Subtraction
424	. Item distribution
425	. Sorting and accounting
426	. Relay- or contact-type storing or accumulating
427	. Differential mechanism, synchronous
428	. Differential mechanism, stop set
429	. Translators
430	. Key operators
431	. With data comparing
432	. With printing
433	.. With paper feeding
434	. With punching
435	**CODED RECORD SENSORS**
436	. Readout control
437	. Error checking
438	. Testing
439	. Particular sensor structure
440	.. Multiple sensor
441	.. Electrical contact
442	... Perforated
443	.... Static sensed
444	.. Electromechanical
445	... Perforated record
446	.... Sensing element in continuous contact with record
447	.... Array
448	... Raised or depressed portions on record
449	.. Magnetic
450	... Strengthen or diminish field or flux
451	.. Capacitive
452	.. Pneumatic
453	.. Mechanical
454	.. Optical
455	... Light level control
456	... Multiple column code
457	... Holographic
458	... Perforated record
459	.... Stationary
460	..... Matrix of cells
461	.... One dimensional scan
462.01	... Bar code
462.02	.... Bar code having a plurality of bars with different heights (e.g., Postnet
462.03	.... Circular bar code (e.g., concentric circles or sun burst)
462.04	.... Bar code with bars of more than two colors (e.g., multicolored bar code, multilevel gray)
462.05	.... Means to read bar code on a transparent medium (e.g., film)
462.06	.... Light level adaptation

462.07   .... Means to decode multiple types or formats of bar code symbols (e.g., UPC, JAN, EAN, etc.)

462.08   .... Bar code location or selection

462.09   ..... 2-D bar code

462.1   .... Means to decode a 2-D bar code
462.11   ..... Including an imager (e.g., CCD or camera-type reader)

462.12   .... Bar code stitching (e.g., forming a complete bar code from several partial scans)

462.13   .... Combined with diverse art device (e.g., security tag deactivator)

462.14   .... Stationary bar code reader

462.15   .... Programming or computer interface feature

462.16   .... Bar width determination

462.17   ..... Using plural sensors

462.18   ..... Using counter or timer

462.19   ...... Including count or time to binary conversion (e.g., Wide=1, Narrow=0)

462.2   .... Aiming or positioning adjunct (e.g., viewfinder, pointer, or positioning aid)
462.21   ..... Using spotter beam

462.22   .... Extended reader working range (e.g., multiple focal planes)

462.23   ..... Auto-focusing

462.24   ...... Using an imager (e.g., CCD or camera-type reader)

462.25   .... Reader processing circuitry

462.26   ..... Amplitude control (e.g., automatic gain control)

462.27   ..... Analog to square wave converter (e.g., digitizer, binarizer, slicer)

462.28   ..... Clock generating or sampling circuit

462.29   ..... Noise reduction circuit (e.g., electrical filters)

462.3   .... Scanner power on/off
462.31   ..... Including object detection

462.32   .... Specific scanning detail (e.g., scanner with a specific scanning field of view)

462.33   ..... Moving a spot of light (e.g., flying spot scanner)

462.34   ...... Hologram

462.35   ...... Having a transmissive optical element (e.g., lens, prism, or aperture)

462.36   ...... Using a moving mirror

462.37   .... Pattern mirror detail for nonrotating mirror

462.38   .... Rotating

462.39   .... Polygon

462.4   .... Pattern mirror detail for rotating mirror
462.41   .... Using an imager (e.g., CCD)

462.42   ..... Illumination detail (e.g., LED array)

462.43   .... Specified housing or mounting detail

462.44   ..... Body attached

462.45   ..... Hand-held (e.g., portable)

462.46   ...... Wireless link (e.g., RF, IR, etc.)

462.47   ...... Interchangeable scanning head or detachable handle

462.48   ...... Trigger detail

462.49   ...... Wand-type reader (e.g., manual scan)

468   ... Invisible
469   ... Color coded
470   ... With scanning of record
471   .... Cathode-ray tube
472.01   ... Hand-held (e.g., portable)

472.02   .... Wireless link (e.g., RF, IR, etc.)

472.03   .... Wand-type reader (e.g., manual scan)

473   ... Light pipes
474   . Synchronization
475   . Feed mechanisms
476   .. Control circuits
477   ... Direction
478   .. Pneumatic feed
479   .. Carriage
480   .. Direction reverse
481   .. Intermittent feed
482   . Hand feed
483   . Guides
484   .. Adjustable
485   .. Aligning records
486   . Holding devices
487   **RECORDS**
488   . Laminated
489   . Perforated
490   . Projections
491   . Fluorescent, phosphorescent, radiation emitting
492   . Conductive
493   . Magnetic
494   . Particular code pattern
495   . Templates and guides
61R   **CALCULATORS**
58R   . Recording
59R   .. Key operated

59A	... Miscellaneous key operated recording
59BC	... Multiplying unitary base
59BD	... Wahl type
59BE	... Flat bed
59BF	... Attachment for typewriters
59CP	... Clear sign printing
59BG	... Power operated
59TP	... Total printing
59T	... Typewriter
59BH	... Addendoraphs
60R	.. Key set
60.11	... By means other than printing or punching
60.12	... Combined with typewriter
60.13	... Multiple recording means
60.19	... Distinctive color
60.15	... Non-numerical data
60.16	.... Alphabetical
60.17	.... Clearance symbol
60.18	.... Function indicating character or symbol
60.2	... True negative total recording
60.22	.... Electric readout
60.23	... With split printing
60.24	... With extended totals
60.25	... Non-recording controls
60.26	... Non-add controls
60.27	... Gang recording
60.28	.... With zero recording controls
60.29	.... By punching
60.3	.... With total taking
60.31	..... By zeroizing result elements
60.32	...... With blank cycle elimination
60.33	..... By sensing result elements
60.34	...... Combined with zeroizing
60.35	..... By differential timing
60.37	..... By direct impression from result elements
60.38	... Digit by digit recording
60.39	.... With total taking
60.4	..... Electrical
60.41	... With traveling paper carriage
60.42	.... Control of carriage feed
60.44	..... Shuttle type operation
60.45	..... Power operation
60.46	..... Columnar
60.47	.... Control of function by carriage
60.48	..... Totalizer selection
60.49	..... Locking devices
60.5	..... Carriage bore function control structures
60.51	.... Control of platen or paper feed
60.52	.... Control of functions from platen or paper feed
60D	... Dalton
60E	... Ellis
60G	... Gardner
60HP	... Hopkin
60MT	... Multiple totalizers
60M	... Multiplying
60PY	... Pay roll
60S	... Split
60SS	... Sundstrand
60TK	... Ten key

60C	... Item counting
60TN	... True negative
60HN	... Hanson
60P	... Print
60AP	... Automatic total print
60TW	... Typewriter
60B	... Burroughs
60CK	... Crank
58M	.. Miscellaneous
58CW	.. Check writers and markers
58CF	.. Paper and carriage feed
58PS	.. Price scales
58P	.. Print
200R	. Including means utilizing fluid, e.g., fluid amplifiers
201R	.. Digital pulse
201ME	... Moving elements
201FS	... Fluid sensor
201PF	... Pure fluid
200PF	.. Analog pure fluid
200WB	.. Weigh beam
62R	. Motor actuated
62A	.. Key set
62B	.. Key operated
62C	.. Wright - Degene (underwood) type
62D	.. Calculators, motor actuated
62E	.. Calculators, motor actuated, Elliot Fischer type
62F	.. Motor circuit and clutch control (mult. and div. control)
63R	. Traveling carriage
63A	.. Manually operated
63B	.. Machines with ten keys or less
63C	.. With master wheels
63D	.. Power operated
63E	.. Auto-control incident to multiplying and dividing
63F	.. Auto-control incident to dividing
63G	.. Divided - divisor aligning mechanism
63H	.. Automatic multiplication
63J	.. Both factors preset in full
63K	.. One factor only preset in full
63L	.. Miscellaneous
63KP	.. Key operated
63KS	.. Key set
63DE	.. Decimal elimination
64	. Adding pencils
64.3	. Decimal point locators
64.7	. Photographic
65	. Bar and disk
66	. Cylinder and disk
67	. Spiral
68	. Ball
69	. Bar
70R	.. Slide rules
70A	... Special use slide rule
70B	... Runners, cursors

70C	... Scales
70D	... Slide rule pencils
71R	. Belt
71A	.. Slide rule tape
72	. Parallel axes
73	.. Cylinder
74	.. Disk
75R	... Key operated
75T	.... Thomas-type machines
76	.. Gear
77	. Single axis
78R	.. Concentric disk
78A	... Adders
78F	... Financial
78G	... Games
78M	... Mathematics
78N	... Navigation
78RC	... Rhythm calculators
79	.. Cylinder
79.5	... Slide rules
80	... Keyless
81R	.... Lever operated
81A	..... Odner type
82R	... Key operated
82C	.... Comptometer
82FK	.... Five key
82TK	.... Ten key
82MK	.... More than ten keys
82SK	.... Single key operated multiplying
82K	.... Key set
83	.. Disk; dial and hand
84	... Slide rules
85R	. Tabular
86	.. Belt
87R	.. Cylinder
87A	... Computing and weighing scales
88R	.. Disk
88F	... Financial
88G	... Games
88M	... Mathematics
88N	... Navigation
88RC	... Rhythm calculators
89R	.. Sheet
89A	... Computing and weighing scales
85FC	.. Rhythm cycle (fertility)
61A	. Miscellaneous
61B	. Tabular
61C	. Integrating
61D	. Chart integrators
61DP	. Decimal point indicators
61E	. Mean or average computers
61F	. Multiplying machine - miscellaneous
61FA	. Precomputed products
61FB	. Variator with counter
61FC	. Variator with accumulator
61FD	. Partial products
61FE	. Successive addition
61G	. Odds computers
61GM	. Geometrical

61J	. Miles per gallon
61K	. Partial product wherein result is obtained in (one) summation
61P	. Polynominal
61L	. Variators - change speed gear devices
61M	. Volume and price computers
61NV	. Navigational
61PS	. Computing scales
61PA	. Mechanical input-output
61PB	. Input-output with storage
61PC	. Input-output from racks to computer
61PD	. Input-output from register to computer
61PE	. Input-output from keyboard to computer
61PF	. Input-output from typewriter to computer
61PG	. Electrical from computer to adding machine
61PH	. Input-output electrical from calculator to typewriter
61PJ	. Input-output electrical from computer to card or tape
61PK	. Input-output calculator to indicator, printer, etc.
61PL	. Storage medium conversion
61PM	. Interconnection, sequencing and programming
61S	. Transportation
61T	. Transportation balance computers
61V	. Transportation time-distance schedules
90	**PEG TALLY BOARDS**
102	**TYPEWRITER WORD COUNTERS**
94R	**LIQUID REGISTERS**
94A	. Volume and price
98R	**PACKAGE OPERATED**
98A	. Reactive package
98B	. Package operated switch
98C	. Interrupted radiant energy ray
100	**REGISTERING BOXES**
99R	**PLATFORM OPERATED**
99A	. Platform actuated traffic counters
101	**STAMP**
93	**GATE AND TURNSTILE OPERATED**
95R	**ODOMETERS**
96	. Details
97	. Trip and total
95A	. Excess speed
95B	. Hub
95C	. Odometers, pendulum type
103	**ROTATION COUNTERS**
103.5R	. Comparing
103.5E	.. Extensometers
104	. Timing devices
105	**PEDOMETERS**
123	**BALL BUTTON OR PUSH BUTTON INDICATOR**
124	**BAR AND SCALE**
125	**BELT**
127	**PIVOTED INDICATOR**
106	**ANGLED AXES**
107	**SPIRAL**
108	**PARALLEL AXES**
109	. Gear
110	. Cylinder
111	. Dial and disk
112	. Dial and hand

113	. Disk
114	.. Hand operated
115	**SINGLE AXIS**
116	. Concentric disk
117R	. Cylinder
118	.. Single cylinder
117A	.. Manually operated
119	. Differential gears
	. Dial and hand
120	.. Multiple hand
121	.. Single hand
122	. Disk
91R	**OPERATING DEVICES**
91PR	. Plural registers
91A	. Double acting pawl escapement with double arm pawl
91B	. Billiards and pool
91C	. Photograph
91D	. Time interval totals
91E	. Telephone
91F	. Pressure and vacuum
91G	. Summation
91H	. Inertia, speed and distance indicator
91J	. Register key
91K	. Register ball actuated
91L	. Mechanical store
91M	. Magnetic
128	**ALARM MECHANISM**
130R	**LOCKING MECHANISM**
130KD	. Incomplete key depression
130TC	. Typewriter computing
131R	**OVERTHROW PREVENTERS**
131FD	. Frictional detent
131M	. Miscellaneous
131JA	. Jamming action
132R	**WITH CONTROL MEANS OPERABLE ON PREDETERMINED REGISTER READING**
132A	. Predetermined count, self-resetting
132E	. Electrical
133R	**TRANSFER MECHANISM**
134	. Cam and lever
135	. Deep notch
136	. Differential gears
137	. Independent actuator
138	.. Successive
139R	. Intermediate pinion
139A	.. Internal pinion
140	. Side tooth
141	.. Lock
142	. Traveling pawl
143	.. Side action
133A	. Electrical
144R	**ZERO-SETTING DEVICES**
144DM	. Disconnected member
144M	. Miscellaneous

<u>144PN</u>	. Pawl and notch
<u>144ME</u>	. Magnetic, electromagnetic, and electric motor reset
<u>144C</u>	. Complement
<u>144HC</u>	. Heart cam
<u>144D</u>	. Dispensing
<u>144S</u>	. Shaft set, miscellaneous
<u>144SS</u>	. Separate shaft
<u>144SM</u>	. Shaft movable
<u>144SP</u>	. Spring
<u>144MG</u>	. Mutilated gear
<u>144TP</u>	. Traveling pawl
<u>144ET</u>	. Elapsed time registering
<u>144MA</u>	. Maximum demand
<u>144B</u>	. Rake reset
<u>144EA</u>	. External mechanism only with or without drive disconnect
<u>144E</u>	. Electrical
<u>144TB</u>	. Total printing
<u>145R</u>	**KEYBOARDS**
<u>146</u>	. Auxiliary
<u>145A</u>	. With total transfer to keyboard or the like

CROSS-REFERENCE ART COLLECTIONS

<u>900</u>	**MEANS TO AFFIX BAR CODE (E.G., ATTACHING, ETCHING, COATING, PRINTING, ETC.)**
<u>901</u>	**BAR CODE READER SPECIALIZED TO READ CODE ON A HIGHLY REFLECTIVE SURFACE**

FOREIGN ART COLLECTIONS

<u>FOR000</u>	**CLASS-RELATED FOREIGN DOCUMENTS**

Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collections listed below. These Collections contain ONLY foreign patents or non-patent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

	CODED RECORD SENSORS (235/435)
	. Particular sensor structure (235/439)
	.. Optical (235/454)
<u>FOR100</u>	... Bar code (235/462)
<u>FOR101</u>	.... Bar with detection (235/463)
<u>FOR102</u>	.... Radially configured (235/464)

FOR103   .... Color (235/465)

FOR104   .... Timing (235/466)

FOR105   .... Rotating prisms or mirrors (235/467)

CODED RECORD SENSORS (235/435)
. Particular sensor structure (235/439)
.. Optical (235/454)
FOR106   ... Hand held (235/472)

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